	Application No.	Applicant(s)
Notice of Allowability	10/547,665	STONE, HERBERT L
	Examiner	Art Unit
	George Suchfield	3676
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/10/07 Communication</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) I including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amendr	(PTO-413), te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allowance
		George Suchfield Primary Examiner Art Unit: 3676

Art Unit: 3676

1. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-20 is that none of the references cited, taken either singly or in combination, teach or fairly suggest a method of recovering oil from a pattern element of a subterranean formation, as in the claimed combinations, including the step in claim 1 of "decreasing water injection rate into the higher completion interval ... for a selected time, while maintaining a selected gas injection rate into the lower completion interval ... so as to increase rate of gas flow upward in the formation and form a mixed flow zone in the formation ... then continuing water injection into the higher completion interval for fluid injection". The cited references also fail to teach or fairly suggest a method of oil recovery from a pattern element of a subterranean formation comprising the combination of steps of claim 14, including the steps of "selecting the rate and times of gas injection and water injection based on the computer simulations to predict a WAG ratio to be injected into the upper completion interval so as to cause gas injected into the lower completion interval ... to flow to the upper boundary ... and the completion interval ... at about the same time; injecting gas and water at selected rates to cause the predicted WAG ratio." For example, the reference to Stone (4,427,067) conducts a computer simulation(s) prior to a WAG oil displacement process, but only selects or determines a single or total injection rate for all the fluids injected, and fails to teach or suggest the continuous injection of gas into a lower completion interval, while decreasing the water injection rate into a higher completion interval for a selected time.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 10/547,665 Page 3

Art Unit: 3676

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to George Suchfield whose telephone number is 571-272-7036. The

examiner can normally be reached on M-F (6:00 - 2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jennifer Gay can be reached on 571-272-7029. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeorge Suchfie Primary Examin

Primary Examiner

Art Unit 3676

September 25, 2007